

**SULFATE IN DRINKING AND SURFACE WATERS, AND DOMESTIC AND INDUSTRIAL WASTES
SEAL AQ2 METHOD NO: EPA 123A REVISION 4**

Facility Name: _____ VELAP ID _____

Assessor Name: _____ Analyst Name: _____ Inspection Date _____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
1. Is the linear calibration range determined initially, and does it contain a minimum of a blank and three standards?	Method Supplement 1, Rev. 2 (MS) 3.2.1				
2. Is linearity reestablished if any verification data exceeds initial calibration values by $\pm 10\%$?	MS 3.2.1				
3. Is a laboratory control sample analyzed with every batch, and is recovery assessed against current laboratory criteria? <i>NOTE: The laboratory "should" establish upper and lower control limits from control charts based on % recovery.</i>	MS 3.4.3, 3.4.3.4, 3.4.3.5				
4. Is at least one method blank carried through all the procedural steps with each batch?	MS 3.4.1.1				
5. Is the calibration verified using a calibration standard after every ten samples or every analytical batch?	MS 4.5				
6. Is a minimum of 10% of all samples spiked with the stock standard?	MS 3.3.1				
7. For compliance monitoring, is the concentration of the matrix spike at the regulatory limit OR 1 to 5 times higher than the background concentration of the sample?	MS 3.3.1.1.1				
8. Was the photometer wavelength set a 405 nm?	2.1				
9. Were sample values corrected after analyzing blanks from which barium chloride was omitted?	4.1				

Notes/Comments:

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10. Was volumetric glassware Class A?	6.2				
11. Was the anhydrous sodium sulfate (Na_2SO_4) dried at 105°C prior to use in stock standards?	7.2				
12. Were samples stored at $\leq 6^\circ\text{C}$ with a maximum holding time of 28 days?	40CFR136.3 Table 1I, 40CFR141.40(a)(5)(i)				

Notes/Comments: